## IN THE CLAIMS:

Please amend the claims as follows:

- 1. (Currently Amended) A control apparatus for an internal combustion engine that is capable of switching between compression ignition combustion and spark ignition combustion, the control apparatus comprising a control unit configured to:

  perform fuel cut out in accordance with operating conditions of the engine;

  perform the spark ignition combustion over a time period after the fuel cut; and permit the compression ignition combustion after the time period elapses.
- 2. (**Original**) The control apparatus of claim 1, wherein the control unit is further configured to:

determine a temperature within a combustion chamber of the internal combustion engine immediately before the fuel cut is performed; and

determine the time period based on the determined temperature within the combustion chamber.

3. (**Original**) The control apparatus of claim 2, further comprising a sensor for detecting a rotational speed of the internal combustion engine;

wherein the control unit is further configured to:

determine a requested engine torque; and

estimate the temperature within the combustion chamber based on the rotational speed and the requested engine torque.

4. (**Original**) The control apparatus of claim 2, wherein the time period is determined so that the time period is longer as the temperature within the combustion chamber is lower.

- 5. (**Original**) The control apparatus of claim 1, wherein the time period is determined in accordance with a duration time of the fuel cut.
- 6. (**Original**) The control apparatus of claim 3, wherein the control unit is further configured to:

correct the estimated temperature so that the estimated temperature does not abruptly change.

7. (**Currently Amended**) A method for controlling an internal combustion engine that is capable of switching between compression ignition combustion and spark ignition combustion, the method comprising the steps of:

performing fuel cut <u>out</u> in accordance with operating conditions of the engine; performing the spark ignition combustion over a time period after the fuel cut; and permitting the compression ignition combustion after the time period elapses.

8. (**Original**) The method of claim 7, further comprising the steps of:

determining a temperature within a combustion chamber of the internal combustion engine immediately before the fuel cut is performed; and

determining the time period based on the determined temperature within the combustion chamber.

9. (**Original**) The method of claim 8, further comprising the steps of: detecting a rotational speed of the internal combustion engine; determining a requested engine torque; and

estimating the temperature within the combustion chamber based on the rotational speed and the requested engine torque.

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- 10. (**Original**) The method of claim 8, further comprising the step of determining the time period so that the time period is longer as the temperature within the combustion chamber is lower.
- 11. (**Original**) The method of claim 7, further comprising the step of determining the time period in accordance with a duration time of the fuel cut.
- 12. (**Original**) The method of claim 9, further comprising the step of correcting the estimated temperature so that the estimated temperature does not abruptly change.
- 13. (Currently Amended) A control apparatus for controlling an internal combustion engine that is capable of switching between compression ignition combustion and spark ignition combustion, the apparatus comprising:

means for performing fuel cut <u>out</u> in accordance with operating conditions of the engine;

means for performing the spark ignition combustion over a time period after the fuel cut; and

means for permitting the compression ignition combustion after the time period elapses.

14. (**Original**) The apparatus of claim 13, further comprising:

means for determining a temperature within a combustion chamber of the internal combustion engine immediately before the fuel cut is performed; and

means for determining the time period based on the determined temperature within the combustion chamber.

15. (**Original**) The apparatus of claim 14, further comprising: means for detecting a rotational speed of the internal combustion engine; means for determining a requested engine torque; and

means for estimating the temperature within the combustion chamber based on the rotational speed and the requested engine torque.

- 16. (**Original**) The apparatus of claim 14, further comprising means for determining the time period so that the time period is longer as the temperature within the combustion chamber is lower.
- 17. (**Original**) The apparatus of claim 13, further comprising means for determining the time period in accordance with a duration time of the fuel cut.
- 18. (**Original**) The apparatus of claim 15, further comprising means for correcting the estimated temperature so that the estimated temperature does not abruptly change.